

Db 1284 GGAATGAAGATGTCTACAGAGTGGCCCAAGACGACGAGCCCGACCTCTCTTCATCAGCT 1343
 QY 1103 ACCCGAGGCGCATCCGACCATGACCGGCTCCGTGTCTGGGCAATCATCTTCTCTTA 1162
 Db 1344 ATGACAGAGCAATGACCAATGCGACGATCCATCTTTGGCAATCTTCTCTTA 1403
 QY 1163 TCTTATATACCTGGGACTTGACAGTACTTTTGGAGCTTGGAGGAGTCCACAGGGCTC 1222
 Db 1404 TCTTATATACGCTGGGATTTGGACAGACCTTCCAGGCTGGAGGAGTGTGATCACAGCTG 1463
 QY 1223 TTTGGACAGAAATCCCTCAGTGTTAGGACAGACATCGCAAGATATTGGCTGTACTGC 1282
 Db 1464 TCTGTGATGAGTCCCTCATCTGTGGCCCAAGGAGGAGGATGTTGCGTGCATCGTGG 1523
 QY 1283 TTTCTGTCAATATATTGGCGCTGTGCCACCAACCATATAGGTGTATACCTGTGTG 1342
 Db 1524 TCATACAGTGCCTTGGGATCCCTGCTACACTGACGTACAGAGGAGGATACGTGTGA 1583
 QY 1343 ACCTACTCAATGTGATGCGCTGATGCGCATTTCTATTGCTGATTTGGTGAAGCTG 1402
 Db 1584 CTCTGCTGAGAGATGTGCCACGAGGCGCCAGCAGTGTCACTGCGCTCATCGAGGCGG 1643
 QY 1403 CCGGCGTGTGCTGGGTGTATGCGTGCACCGGTTCTGAAGATGTAGAGACCATGCTGG 1462
 Db 1644 TCGCGGTGTCTGTGTCTATGAGATCATCAGTGTGTGACGATGTGAAGAGATGCTGG 1703
 QY 1463 GGCACACCCCTGATGCTGTGAGAGACCTGTGTGCTTACATCACTCCGATTTTTCG 1522
 Db 1704 GCTTACGCGGAGTGTGTGTGAGAGATGTGCGGTGCGCACACCTCTGTCTCTCC 1763
 QY 1523 TGGTGTGTCTGTCTCTCTCTCTGTGACAGAGAGATGTGCGGAGGATATACCT 1582
 Db 1764 TCTTATCATTTTGGACGTTTCTGATAGGCCACCCAGCTAGGCTTTTCCATTAACCT 1823
 QY 1583 ATCCCTCATGCTCTATCACCGTATGCTGGGTGTATGACCGGACACCGTCTGTGATTC 1642
 Db 1824 ATCCCACTGAGATATGCTGCTGGGCTACTGATAGGATGTGCTGCTCATCTGATCC 1883
 QY 1643 CTCTTACATTTATCTCAAACTGCTCATGCTGCAATGCTGCAATGCAATGCAATGCAAT 1702
 Db 1884 CTACCTATATCTTTATGCGGTGATGACACTCCGGGACACTTAAAGAGCGCATTAATTA 1943
 QY 1703 CAATCCACGTCGGAA 1719
 Db 1944 AAGATATCACTCCTGAA 1960
 SULT 4
 241055
 AAQ41055 standard; cDNA; 2278 BP.
 AC AAQ41055;
 XX
 DT 20-AUG-1993 (first entry)
 XX
 DE Rat 5HT transporter cDNA.
 XX
 KW Rat; 5HT; Serotonin transporter; psychological disorder;
 KM neurotransmitter; behavioural disorder; 5-hydroxytryptamine;
 OS antidepressants; depression.
 XX
 OS Rattus rattus.
 XX
 FH Key Location/Qualifiers
 FT CDS 48..1868
 FT /tag= a
 XX
 PN MO9308261-A.
 XX
 PD 29-APR-1993.
 XX
 PF 21-OCT-1992; 92WO-US09095.

XX
 PR 22-OCT-1991; 91US-0778231.
 XX
 PA (UYDU-) UNIV DUKE.
 PA (UYEM-) UNIV EMORY.
 XX
 PI Blakely RD, Caron MG, Freneau RT;
 DR WPI; 1993-152457/18.
 DR P-PSDB; AAR34662.
 XX
 PT Serotonin transporter protein, its DNA and antibodies - for
 PT identifying serotonin transport inhibitors and probing serotonin
 PT transporter gene expression, e.g. to investigate genetic
 PT disorders
 XX
 PS Claim 3; Page 37; 62pp; English.
 XX
 CC This sequence is the rat 5HT transporter cDNA. It was isolated
 CC using a synthetic antisense oligonucleotide corresp. to the 5' end of
 CC a partial 5HT clone. This was used to screen a rat brainstem cDNA
 CC library. One positive plaque from a total screen of 1.2 * 10⁶
 CC plaques was identified and the EcoRI insert subcloned into
 CC pBluescript SKII.
 XX
 SQ Sequence 2278 BP; 501 A; 657 C; 573 G; 547 T; 0 other;

Query Match 32.7%; Score 576.2; DB 14; Length 2278;
 Best Local Similarity 59.9%; Pred. No. 1,1e-145;
 Matches 981; Conservative 0; Mismatches 653; Indels 3; Gaps 1;

QY 86 TGGTGTGCTTACGGCGGCGGACGAGACCTGGGCAAGAGCAGAGTCTCCG 145
 Db 187 TGTGCTTACAGATTTCCCAAGGAGGAGGAGACCTGGGCAAGAGATGATTTCTCC 246
 QY 146 TGGCGGTGTGGGATTTGCAAGTGTATCTTGTAACTGTGGCATTTCCCTACATCTTT 205
 Db 247 TGTCCGCTATGCGCTATGCGCGTGCACCTGGCAACATCTGGCGGTTCTTACATATGCT 306
 QY 206 ACCAGAAATGAGGCGGCTGCTTCTATCCCGTACGCTGTATGCTGCTGTGGCGGC 265
 Db 307 ACCAGAAATGAGGCGGCTGCTTCTTCTCTCTTATACATCAAGCATTTTCGGGGGGA 366
 QY 266 TGGCGGTGTCTTCTGGAACCTGCGCTGGGCGAGTACCAACGCTGCGGCTGCATC 325
 Db 367 TCCGCTCTTTTACATGAGCTGCGACTGGGTAGTACCAACGAGGCTGATTTCCA 426
 QY 326 TCTGAAAGGATCTCCCGGCTTAAAGGTGTGCGTATGCAATCTGATGATGACA 385
 Db 427 TATCGAGAAAGATCTCCGATTTTCAAGGATTTGTTAAGCATCTGATGATGCGCT 486
 QY 386 TCTACATGGGATGCTACTACACAGATCATCGATGGGCGGTATTTACCTGATCGCTT 445
 Db 487 TTTACATGCGCTCTCTACTACACACCATATACCTGCGGCGCTCTACTCATCTATCTCT 546
 QY 446 CTCTGCGTCTATTAACCTGCTGTCGCAATGAGCAGCTGCGCAACAGAGTGAACACCG 505
 Db 547 CCTCACAGGAGCGGCTGCGCTGACACAGCTGCAAGACTCTTGAACACTGCGAATGCA 606
 QY 506 CGCTGTGACGCGGCTGACCTCACTCAGATTAATCTTAATCTTTACACCGCGCAAG 565
 Db 607 CCNACTACTTCCGCCAGGACAAACATCACTGAGCGGTGATTCACAGTCCCCCGTGA 666
 QY 566 AGTTCTTGAAGTATTTATTTGGACAGACAGCAAGCTTAACGCGCTGATGATGAGG 625
 Db 667 AGTTTACTTGGCCCATGCTTCAAGATCAACAGCTTAAGGAGCTCCAGGAGCTTGCGCA 726
 QY 626 CGATCAAGCGCTGCGCTGCTGTGTGTTGCGGCGCTTTCCTGCTACTTCTCT 685
 Db 727 CCATCAGCTGGGAGCTGACTCTTGCATGCTGCTCATCTTCAACCGTAATCTTACTTA 786
 QY 686 TGTGAAAGGAGTCAAGAGTGTGCGCAAGTGTGTGGGTGACAGCTTGGCCCGTACG 745

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Db      787 TCTGGAAGAGCGCTCAAAACATCTGGCAAGGTGTTGGTGAGACGCCACCTTCCATACA 846
QY      746 TGGTGGCTGATTTCTGTGGCAGAGGCGTCAAGCTTCCAGAGGAGCGAGGCGATAC 805
Db      847 TTGTCTCTCTCTGCTGCTGGTGGTGGGCGCCACCTTCTGTGAGCGCTGAGAGGGGTG 906
QY      806 GCTACTACTTACCCAGAGTGGCACAATTTGCAAACTCTAAGTATGATGATGACGCG 865
Db      907 TCTTCTACTTGAAGAACCACTGGCAGAACTTTGGAGACAGAGGGTGGTATGATGCC 966
QY      866 CATCCAGATTCTTCTGCTGGTCCCGGGTTCCGAACCCACTAGCGGCGCTCCAGCT 925
Db      967 CCGCTCAGATCTTCTCTCTCTGCTGGCGCGGCTTTGGGCTTCTTGGCTTTGCTAGCT 1026
QY      926 ACAACAAGTTCAACAACAACAGTCTACAGGAGCGCGCTCATCTTCTTATCAATGCT 985
Db      1027 ACAACAAGTTCAACAACAACAGTCTTACAGATGCTCCCTGGTGAACAGTGGTAACTGCA 1086
QY      986 TGACCAAGCTTCTTCTGCTGTTTCTGCTATTTCTGCTTTTGGGGTACATGCGCAGCTTC 1045
Db      1087 TGACAAGCTTCTGCTGCTGCTGCTCATCTTCAAGCTTGGCTATGCGCGAGATGA 1146
QY      1046 AGACAAGAGCAATCGAGAGGTGGC---CTGAGAGCGCTGAGCTGGTTCATGCTGT 1102
Db      1147 GGAATGAAAGATGTGTAGAGGTGGCCAAAGAGCGAGGCCCGCCACCTCTCTTATCAGCT 1206
QY      1103 ACCCGAGGCGCATCCGACCATGACCGGCTCCGCTTCTTGGGCGCATCATCTTCTCTCA 1162
Db      1207 ATGCAAGAGGCAATAGCAACATGCCAGCATCCACGTTCTTTGGCATCATCTTCTCTCA 1266
QY      1163 TGTATTATACCTGGGACTTGACAGTACTTTGGAGGCTTTGAGSAGTACACAGCGCTC 1222
Db      1267 TGTATTATACGCTGGGATTTGGACAGCAGCTTGCAGCGCTGGAAGGTGTGATCAGCTG 1326
QY      1223 TTTGGACAGAAATATCCTCGAGTGTGAGGAGACATGCGAGATTTTGGGCTGACTGC 1282
Db      1327 TGTGATATAGTTCCTCATATGCGCCAGCGAGGAAATGTTGCTGCTCATGCTG 1386
QY      1283 TTCTGTTCATCTAATATTTGCGCTCTGCCACACACATACGGTGGTGTATACCTGCTAG 1342
Db      1387 TCATCAGTGGCTCTTGGGATCCCTGCTCCTACACTGACGTCAGAGGAGGCGATAGCTGTGA 1446
QY      1343 ACCTACTCAATGTGTATGGCCCTGGATTTGGCGATTTATTCGTGGTATTTGCTGAGGCTG 1402
Db      1447 CTCTGCTGAGAGATATGCGCAGCGGCGCAGCACTGCTACCGGCGCTCATCGAGGCGG 1506
QY      1403 CCGGCGTGTGCTGGGATGATGCGGCGGCTCTGAAGATGTGAGAGACCATGCTGG 1462
Db      1507 TCGCGGTGCTTGTGTTCTATGGAATCACTGAGTTCTGACGCGATGTGAAGAGATGCTGG 1566
QY      1463 GGCACACCCCTGATGTTCTGGAGACCTGTTGCTTATCATCACTCCGTAATTCCTGC 1522
Db      1567 GCTTACGCCCGGGAATGTTTGGAGATCTGCTGGGTGGCCATCACCCCTCTGTTCTCCG 1626
QY      1523 TGTGTGTTCTGTTCTGTTCTGTTCTGGCAGAGAGATGCTCGGCGGGGAATACCT 1582
Db      1627 TGTATATCATTTGCACTTTTGTGATGAGCCACCCAGCTACGCGCTTTTCAATATCAACT 1686
QY      1583 ATCCCGCATGCTCTATCACCGTATGAGGTGGGTGATGACCGGCAACCCGCTGCTGATTC 1642
Db      1687 ATCCCGCATGAGATATGCTGTTGGGCTACTGCAATGAGGATGTGCTGCTCATCTGATCC 1746
QY      1643 CTCTTACATTTATCTACAACACTGCTATCTGCGCAATTCATCAACCCCATCAAA 1702
Db      1747 CATACGATATCATTTATGGCTGATCAGACTCCGGGAGCACTTAAGAGCGCATTTATTA 1806
QY      1703 CAATCCAAAGTCCGAA 1719
Db      1807 AAGTATACACTCCTGAA 1823

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RESULT 5
AA041056

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ID      AA041056 standard; cDNA; 2415 BP.
XX
AC      AA041056;
XX
DT      20-AUG-1993 (first entry)
XX
DE      Rat 5HT transporter cDNA.
XX
DE      Rat; 5HT; Serotonin transporter; psychological disorder;
XX      neurotransmitter; behavioural disorder; 5-hydroxytryptamine;
XX      antidepressants; depression.
XX
OS      Rattus rattus.
XX
FH      Key
FT      CDS
FT      Location/Qualifiers
FT      115..2006
FT      /tag= a
XX
XX      MO9308261-A.
XX
XX      29-APR-1993.
XX
XX      21-OCT-1992; 92MO-US09095.
XX
XX      22-OCT-1991; 91US-0778231.
XX
XX      (UYDU-) UNIV DUKE.
XX      (UYEM-) UNIV EMORY.
XX
XX      Blakely RD, Caron MG, Fremeau RT;
XX      WPI: 1993-152457/18.
XX      P-PSDB; AAR34663.
XX
PT      Serotonin transporter protein, its DNA and antibodies - for
PT      identifying serotonin transporter inhibitors and probing serotonin
PT      transporter gene expression, e.g. to investigate genetic
PT      disorders
XX
XX      Example 5; Page 43; 62pp; English.
XX
CC      This sequence is the rat 5HT transporter cDNA. It was isolated
CC      by further sequencing of the sequence isolated as in AA041055. This
CC      was found to have a gel compression error, whereby a G between 120-140
CC      was misread as GG. With this alteration it was found that the true
CC      start for translation was present in a reading frame upstream of the
CC      start site indicated in AA041055, thought to be a non coding sequence.
CC      The ORF encoding the transporter extends to 1890 bp predicting a protein
CC      of 630 amino acids with a RWM of 70kD. The differences in translation
CC      products between the two clones do not result in differences in
CC      transport properties.
XX
XX      Sequence 2415 BP; 538 A; 707 C; 599 G; 571 T; 0 other;
XX
Query Match      32.7%; Score 5/6; DB 14; Length 2415;
Best Local Similarity 60.2%; Pred. No. 1.2e-145;
Matches 973; Conservative 0; Mismatches 640; Indels 3; Gaps 1;

```

OY	347	CGCTTAAAGGATGGGGCATCTCAATTCGATGATGCAATCTACATATGAGGATGGCATGATACAA	406
Db	585	TTTTCCAAAGGATTTGGTTAGCCCATCTGCATCATGCTTTTAACTGCGCTCTCACTACAA	644
OY	407	ACAGCATCATCGATGGCGGGTGTATTACCTGATGCTTCTCTGCGCTCTATAACTCTG	466
Db	645	ACACCATCATAGCTGGCGGCTCTACTACCTCATCTCTCTCCCTCAGGAGCGGCGCCCT	704
OY	467	TGCTGCCATGGAACCAAGCTGCCAACAACGAGTGGAAACAGCCGCTGTGCACGCGCGCTACCT	526
Db	705	GGACCAAGCTGACCAACTCTCTGGAACACTGGCAACTGCACCAACTACTCTCGCCAGGACA	764
OY	527	CACCTGACACTAATCTTAACCTCTTCTACACCGGGGAAGAGATTTCTGCAAGTATGAT	586
Db	765	ACATCACCTGGACGGTGCATTTCAGAGTCCCGCGTGAAGATTTCTACTTGGCCCATGTC	824
OY	587	TGGAGCAGACAAAGTCTAACGGGCTGGATGACATGAGGGCCGATCAAGCCGTCTGCTG	646
Db	825	TGCAGATCCACCACTTAAGGGAGCTCCAGGACCTGGGGCACCATCAGCTGGAGGCTGACTC	884
OY	647	TGTGTGTGTGGGGGCTTTCTCTCGCTCACTTCTCTCTGTGCAAGAGATCGAGAGCTG	706
Db	885	TCTGCATCTGCTCATCTTCACTACCGTAATCTATTAGCATCTGGAAAGCGCTCAAAACAT	944
OY	707	CTGCGAAGGTGTGTGGGTGACACCTCTGAGCCCGCTAGTGATGCTCTGATTTCTGTG	766
Db	945	CTGCCAAGGTGTGTGGGTGACACCACTTCCCATATGTCCTCTCTGCTGCTGG	1004
OY	767	CGAAGAGGCTACGCTTCCAGAGCAGACGAGAGGCGCATCGCTACTACTTACCCAGAGT	826
Db	1005	TGAGGGGGGCCACCTTCTCTGAGCTGAGAGGGGCTGTCTTCTACTTGAACCCAACT	1064
OY	827	GGACAAATTTCCAAACTCTTAAGGTATGATTTGAAGCGGCACTCCAGATTTTCTCTCTGC	886
Db	1065	GGCAAAACTCTTGAGAGCAGAGGGGTGTGTAGATGCCGCGCTCAGATCTTCTCTCTC	1124
OY	887	TGCGTCCCGGGTTGGGAACCTACTGGCGCTCTCAGCTACAACAAGTTCAACAACAAC	946
Db	1125	TTGGCCCGGGTTTGGGGTTCTCTCTGCGCTTCTCTTAAGCTACAAAGTTCAACAACAAC	1184
OY	947	GCTACAGGAGCGGCTCATCTTCTTATCAACATGGTTACCAAGCTTCTCTGCTGGAT	1006
Db	1185	GTTACCAAGATGCGCCTGCTGACACAGTGTGGTGAACCTGATACAAAGCTTCTCTCTGCT	1244
OY	1007	TCTGCATTTTCTCGGTTTGGGGTACATGCGCAGCTTCAGAACAAAGCATCGAGAGG	1066
Db	1245	TCTGCATCTTACAGTCTGCTGGTACATAGCGGAGATGAGGAATGAATGATGTCTCAGAG	1304
OY	1067	TTTGGC---CTGGAAGGCGCTGGACGTGGTTCATCTGTATACC CGGAGGCCATCGCCACCA	1123
Db	1305	TGGCCAAAGACGAGGCGCCAGCCCTCTTCTATACAGTATGACGAGGCAATAGCAACA	1364
OY	1124	TGACCGGCTCCGTTTGGGCGCATCATCTTCTTCTCATGCTTATTTACCTCGGAGCTTG	1183
Db	1365	TGCCAGATCATCGAGTTTCTTCCATCATCTTCTCTCTCATGTATATCATCGCTGGGATTTG	1424
OY	1184	ACAGTACTTTTGGAGGCTTTAGGCAAGTACACACGCGCTTTTGGAGCAATATCCTGAG	1243
Db	1425	ACACACAGCTTGGCAGGCGCTGGAAAGTGTGATCAACAGCTGTCTGGATGACTTCCCTACA	1484
OY	1244	TGTTAAGGAGACATCGCAAGTATTTTGGCTGACACTCTTCTGTTCATCTATATTTTGCG	1303
Db	1485	TCTTGGGCCAAGCGAGGAATGTTCCTGTCTCATCTGTGTATCATACGTCGCTTTGGGAT	1544
OY	1304	CTTGTCCCAACGACATATGCGTGGTGTATTACTCTGTAGACCTACTCAATGTGATGGCC	1363
Db	1545	CCCTGTCTACACTGACGTCAGAGGCGCATACGTGTGTACTCTGTGTGAGAGATATGCCA	1604
OY	1364	CTGTGATTTGGCATTTCTATCTGTGTATTTCGTGAGGCTCGCGGGTGTCTGTGGGTATG	1423
Db	1605	CGGGGCCAGCATGTCTACCGCTGTGGCGCTCATAGAGGCGGCTGCGCGCTTGTGGTTCTATG	1664

QY	1424	GCCTCGACCCGGTCTCTGAAGATGTGAGACCATGTGGGGACACCCCTGGATGGTCT	1483
Db	1665	GAATCACTCACTTCTGCAAGCGATGTGAAGAGATGCTGGCTTAAGCCCGGATGCTTTT	1724
QY	1484	GGAGGACCTGTGGTCTTACATCACTAGTCCCGTATTTCTGTGTCGTTCCTCCG	1543
Db	1725	GGAGATCTGTGGTGGTGGCCATTCAGCCCTGTGTTCTTCCTGTTTCATTTTGCAGTTTTC	1784
QY	1344	TTCCTGACACAGAGGAATGCTCGGGGGGGAATACACCTATCCCTCATGTCTATCACCG	1603
Db	1785	TGATGACCCCAACCCACCTAGCGCTTTTCCAAATCAACTATCCCACTGGAGTATCGTCT	1844
QY	1604	TAGCCTGGGTGATCAGCCGGACACACCGTCTGTCATTTCCCTTTTACATATATCAACAAC	1663
Db	1845	TGGCTACTACTGATAGGATGTCTGTCGCTCATCTGCACTCCCTTACCTATATCATTTATCGCC	1904
QY	1664	TGCTCATCACTCTCTGGCAATTGCATCAACGCGCATCAAGACAAATCAACGTCGGAA	1719
Db	1905	TGATCAGACACTCCGGGGACACTTAAGGAGCGGCATTTATTAAGATACATCTCTGAA	1960
RESULT 6			
AAQ26646			
ID	AAQ26646	standard; DNA; 2756 BP.	
XX	AAQ26646:		
AC			
XX	17-DEC-2001	(updated)	
DT	19-JAN-1993	(first entry)	
DT			
XX		Encodes 5HTT serotonin transporter.	
DE			
XX		serotonin transporter protein; antidepressants; drug abuse;	
KW		amphetamines; cocaine; treating; diagnosing; neurological disorders;	
KW		ss.	
XX			
OS		Homo sapiens.	
XX			
FH	Key	Location/Qualifiers	
FT	CDS	232..2190	
FT		/tag= a	
FT		/product= serotonin transporter 5HTT	
XX			
PN	USN782298-N.		
PD	15-APR-1992.		
XX			
XX	24-OCT-1991;	91US-0782298.	
PF			
XX	24-OCT-1991;	91US-0782298.	
PR			
XX	(USSH) US DEPT HEALTH & HUMAN SERVICE.		
PA			
XX	Brownstein MJ, Hoffman BJ, Mezey E;		
PI	WPI; 1992-259291/31.		
DR	P-PSDB; AAR25642.		
DR			
XX			
PT	DNA clone encoding rat serotonin transport protein, 5 HTT -		
PT	useful in diagnosis and treatment of neurological disorders		
XX			
PS	Example 1; Page 23; 47pp; English.		
XX			
CC	This sequence encodes the 5HTT serotonin transporter. A cDNA		
CC	library was prepared in E. coli MC106lp3 from poly(A)+ RNA from		
CC	RLU 2H3 cells (cognate mast cells). Plasmid DNA was then prepared		
CC	and transected into COS-7 cells, which were screened with 3H-5-HT		
CC	and a single positive pool identified microscopically and further		
CC	subdivided. These subdivisions were screened using degenerate		
CC	oligonucleotide probe AAQ26647, directed at a region highly conserved		
CC	in noradrenaline and GABA transporters. A single hybridising band		
CC	was present in each positive pool identified by bioassay through		
CC	three successive rounds of screening. A single positive clone was		

AC	AAQ41057;	
XX		
DT	20-AUG-1993	(first entry)
XX		
DE	Human 5HT transporter cDNA.	
XX		
KW	Rat; 5HT; Serotonin transporter; psychological disorder;	
KW	neurotransmitter; behavioural disorder; 5-hydroxytryptamine;	
KW	antidepressants; depression.	
XX		
OS	Homo sapiens.	
XX		
FH	Key	Location/Qualifiers
FT	CDS	73..1962
FT		/*tag= a
XX		
PN	W0308261-A.	
PD	29-APR-1993.	
XX		
21	21-OCT-1992;	92MO-US09095.
XX		
PR	22-OCT-1991;	91US-0778231.
XX		
PA	(UYDU-) UNIV DUKE.	
PA	(UYEM-) UNIV EMORY.	
XX		
PI	Blakely RD, Caron MG, Freneau RT;	
DR	WPI: 1993-152457/18.	
DR	P-PSDB: AAR34664.	
XX		
PT	Serotonin transporter protein, its DNA and antibodies - for	
PT	identifying serotonin transport inhibitors and probing serotonin	
PT	transporter gene expression, e.g. to investigate genetic	
PT	disorders	
XX		
XX		
PS	Claim 2: Page 49; 62pp; English.	
XX		
CC	This sequence is the human 5HT transporter cDNA. Poly A+ RNA	
CC	purified from a placental trophoblastic cell line was converted to	
CC	single stranded cDNA and subjected to PCR using AAQ41058.9 designed to	
CC	encode highly conserved sequences of NE and GABA transporters and that	
CC	had been previously employed for the identification of the rat brain 5HT	
CC	transporter. Following direct cloning of PCR fragments sequencing was	
CC	performed on plasmid DNA to identify partial human 5HT transporter	
CC	candidates. A synthetic 21mer oligonucleotide AAQ41060 derived from the	
CC	5' end of the JAR cDNA was 3' end labeled with GAMMA32P atp and used to	
CC	screen a human placental cDNA library in lambdaZAPII by Magsnagraph (MSI)	
CC	filter hybridisation. 3 hybridising clones were identified in a screen	
CC	of 1.6x10power6 plaques, and following rescreening were obtained as	
CC	individual plasmids by in vivo excision. Restriction and sequencing	
CC	analysis revealed two of these clones to be homologous to r5ERT and to	
CC	be identical with each other except for the presence of distinct	
CC	deletions in each DNA. A recombination PCR approach was used to	
CC	ligate in-frame the two pieces possessed uniquely by the two cDNAs which	
CC	was transferred back into the original clone at convenient restriction	
CC	sites.	
XX		
XX		
Sequence	2508 BP; 572 A; 652 C; 631 G; 653 T; 0 other;	

Query Match	31.3%	Score 552.4	DB 14	Length 2508
Best Local Similarity	59.5%	Pred. No. 3.2e-139		
Matches	953	Conservative 0	Mismatches 646	Indels 3
			Gaps	1
OY	107	GGCAGCGGAGACCTGGGCGAAGAGCGAGATTCCTGCGCGGTGGTGATTCGCGAG	166	
Db	302	GGGAGCGGGAACCTGGGCGAAGAGGTGGATTCCTCTCAGATGGATTCGCTATGCG	361	
OY	167	TGATCTCTGTAGCGTGGGCGATCCCTCATCTGTACAGAAATGAGGCGGATGGGT	226	
Db	362	TGAGACTGGGCAATGTCTGGCGCTTCCCTACATTTGTTACAGAAATGAGGCGGCGCAT	421	

OY	227	TCCTATCCCGCCAGTACGCGTATATGCTGCTCTTTGGGGGGGTGGCGGCTTCTTCGCGAAC	28
Db	422	TCCTCTCTCCCTACACACCATCATGCGCATTTTGGGGGAATCCCGCTCTTTTACATGGAAC	481
OY	287	TGGCGCTGGGCCAGTACACCGCTCGCGCTGCCACTCTCTGGAAGAGCATCTGCCCCG	346
Db	482	TCGCACTGGGACAGTACACCCGAATGGATGCATTTCAATATGAGGAATAATCTGCCGA	541
OY	347	CGCTTAAAGGTGTGGGCTATGCGATCTGCATATGACATCTACATGCGCATGTACTACA	406
Db	542	TTTTCAAAGGATGTGGTATGCGATCTGCATATGCTCTTTTACATGTGTTCTCTACTACA	601
OY	407	ACACGATCATCGATGGCGGGGTATTAACCTCATGCTCTCTCCGTTCTATMAACTCTG	466
Db	602	ACACCATCATGGCTGGGGGGTATACTACCTCATCTCTCTTACCGGACAGCTGGCCCT	661
OY	467	TGCTGCCATGGACACGCTGCGACAAACGAGTGGAAACAGCCGCTGTGCACGCGGTCACCT	526
Db	662	GGACCAAGCTGCAGAAAGTCTTGGAACACTGGGACATGCACCAATTAATCTTCCGAGGACA	721
OY	527	CACCTCACTAATCTTAACCTTCTTACACCGGCGAAGAGTCTTTCGAACGTAAATGTAT	586
Db	722	ACATCACTGGACCCCTCCATTCACAGTCCCTCGTGAAGAAATTTTACACGCGCACCTGC	781
OY	587	TGGACACACACAGTCTAACGGCCCTGATGACATGGGCGCATCAAGCCCTGCGTCTC	646
Db	782	TGCATATCACCGGCTCTTAAGGGGCTCCAGAGACTGGGGGGCTATCAGCTGGACGTGGGCC	841
OY	647	TGTGTGTGTGGGGTCTTTTTCCTCGTACTTTCCTGTGAAAGAGAGCAGAGAGT	706
Db	842	TCTGCATATGCTGATCTTCACTGTATATCTACTTACGATCTCGAAGAGGCTCAAGACT	901
OY	707	CTGGCAAGTGTGTGGGTGACAGCTGTGGCCCGCTAGCTGTGCTGATCTGTCTGG	766
Db	902	CTGGCAAGTGTGTGGGTGACAGCCACTTCCCTTATATCACTTCTTCTGCTGGTGG	961
OY	767	CGAGAGGGGTACACGCTTCCAGAGGAGGAGGGGATACGCTACACTTACCTTACCCAGAT	826
Db	962	TGAGGGGTGCCACCTCCCTGGAGCTTGAGGGGTGTTCTTCTACTTGTGAACCCAATT	1022
OY	827	GGCAGAAATTCAGAAATCTTAAGGTATGGATGAGCGGAGCATCCGACATTTTCTTCTGCG	886
Db	1022	GGCAGAAATCTCTGGAGAGAGGGGTTGGATAGATGCAAGCGCTCAGATCTTCTCTGTC	1083
OY	887	TCGTGCCGGGTTCGGAACCTACTGGGCGCTCTCCAGCTACACAAAGTTCAACAACAACCT	946
Db	1082	TTGTGTCGGGCTTTGGGGTCTCTGCGCTTTTGTAGCTACAAACAAGTTCAACAACAACCT	1144
OY	947	GCTACAGGAGCGCGCTATCACTTCTTATCAACCTGCTTACACAGCTTCTCTGCTGATT	1006
Db	1142	GCTACAGATGGCCCTGCTGACACACCGTGGTGAACCTGCATGACGAGCTTCTGTTGGGAT	1207
OY	1007	TGCTCATTTTCTCGGTTTGGGGTACATGGCGCAGTTTCAGAACAAAGCATCGAGAGG	1066
Db	1202	TTTGTCATCTTCAAGTGTCTGGTTTACATAGGCTGAGATAGGAATAGAAATGTGTCGAGG	1261
OY	1067	TTTGGC---CTGGAAGGCCCTGGACGCGGTGATCATGTGTATACCAGGAGCCATCGGCACACA	1122
Db	1262	TGGCCAAAGACGCAAGTCTCCAGCCCTCTTTCATCATGCTATGCAAAACGATAGCAACA	1322
OY	1124	TGACCGGCTCGTGTTCGGGCAATCATCTTCTCTCATGCTTATATACCCCTGGACATTG	1183
Db	1322	TGCCAGGCTCAGTTTCTTTCGCAATCATCTTCTTCTGATGTATATCAAGCTGGGCTTGG	1383
OY	1184	ACACTACTTTTGGAGGTTTAGGCACTACACAGGCTCTTTTGGACGAATATCTCTGAG	1243
Db	1382	ACACACAGTTTGCAGGCTTGGAGGGGGGATACAGGCGTCTGGATGATGATCCACACG	1444
OY	1244	TGTTTAGGAGACATTCGCAATATTTTGGGCTGATCACTCTTCTGTTCACTATATTTGCG	1303
Db	1442	TCTGGGCGCAAGCGCGGAGGCTTCTGTGCTCGCCGTGTATCACTGCTCTTCTTTGGAT	1501
OY	1304	CTGTGCCACACACATACGCTGTGTATACCTCTGTAGACTACTCATGATGTGATGGCC	1363

Db 1502 CCTGGTACACCTGACTTTTGGAGGGCCCTACCTGGTGAAGCTGTGAGAGACTATGCCA 1561
OY 1364 CTGGATTGGGATTATTCGTGTGTAATTTGCTGAGCTGCGCGCGTGTGTGTATG 1423
Db 1562 CGGGCCCCGAGTGTCTACTGTGCGCTGATCGACAGAGCGTGTCTTGGTTCTATG 1621
OY 1424 GCGTCGACCGGTTCTGTGAAGATGTAGACACATGCTGGGGGCACACCCCTGATGGTCT 1483
Db 1622 GCATCACTAGTCTCGAAGGAGCTGAAGAAATGCTGGCTTCAGCGCGGGGTGTCT 1681
OY 1484 GAGAGACCTGTGTGTCTTACATCAGTCCGATTTCTGTGTGTGTGTGTGTCTCG 1543
Db 1682 GAGAGATCTGTCTGTGGGCGCATCAGCCCTCTGTTCCTGTTCATCATTTGCAAGTTTC 1741
OY 1544 TTGTGGACACGAGGAGATGCTGGGGGGAATACACCTATCCCTCATGCTATACCG 1603
Db 1742 TGATGACCCCGACACACTAGACACTTTTCCAAATATATATATCTTACTGAGATATCT 1801
OY 1604 TAGGCTGGGTGATGACCGGACCGACGCTCTGTGATTCCTCTTACATTTATACAAAC 1663
Db 1802 TGGGTTACTGTCAATGAGAACCTCATTTTCAATTTGCAATCCCAATATATAGCTTATCG 1861
OY 1664 TGCTCATCACTCTCTGCAATTTGATCAACCGCATCAAGACAA 1705
Db 1862 TGATCATCACTCCAGGAGACATTTAAGAGCGTATTTATAA 1903

RESULT 9

AA094018 standard; cDNA; 2508 BP.
ID AA094018 standard; cDNA; 2508 BP.
AC AA094018;

02-DEC-1995 (first entry)

Human 5HT transporter (hSERT).

Serotonin transporter; 5-hydroxytryptamine; 5HT; noradrenaline; NA;
SERT; ss.

Homo sapiens.

Key Location/Qualifiers
FH 73..1962
FT CDS
FT /*tag= a

US5418162-A.

23-MAY-1995.

22-OCT-1991; 91US-0778231.

14-OCT-1992; 92US-0959943.

22-OCT-1991; 91US-0778231.

(UYDU-) UNIV DUKE.

(UYEM-) UNIV EMORY.

Blakely RD, Caron MG, Fremeau RT;

WPI; 1995-199742/26.

P-PSDB; AAR76074.

DNA encoding rat serotonin transporter - useful in the rational design of

drugs and for screening for RFLP associated with certain disorders

Claim 12; column 37-42; 27pp; English.

An oligo probe capable of hybridizing to a DNA consisting of a

portion of AA094018 is claimed. Poly (+) RNA purified from a

placental trophoblastic cell line is used to prepare a human

CC human 5HT transporter candidates was used to screen the
CC library. Three hybridizing clones were identified. Two of these
CC clones were found to be homologous to SERT and to be
CC identical with each other except for the presence of distinct
CC deletions in each cDNA. A PCR approach was used to ligate in-frame
CC the two pieces possessed uniquely by the two cDNAs.

XX Sequence 2508 BP; 572 A; 652 C; 631 G; 653 T; 0 other;

Query Match 31.38; Score 552.4; DB 16; Length 2508;
Best Local Similarity 59.58; Pred. No. 3,2e-139;
Matches 953; Conservative 0; Mismatches 646; Indels 3; Gaps 1;

OY 107 GCGAGCGGAGACCTGGGCGGCAAGAGAGAGCTGCGTGGGCGGTGGATGCGAG 166
Db 302 GGGAGAGGAGAGCTGGGCGGCAAGAGAGAGCTGCGTGGGCGGTGGATGCGAG 361
OY 167 TGATCTTGGTAAAGTGTGGGATTCCTTACATCTGTTCAGAAATGAGGCGGTGCT 226
Db 362 TGAGACTGGGCAATGTCTGGGCTTCCCTTACATATGTTACAGAAATGAGGCGGAT 421
OY 227 TCGTGAATCCCGTATCGTATGCTGTGTTGGCGGCGTGGCGTGTCTTCTGGAAC 286
Db 422 TCGTGTCCCTCCACCATATGCGCATTTTGGGGAAATCCGCTTTTACATGAGAG 481
OY 287 TGGCGCTGGGCGAGTACACACCGCTGGGCGTCCCTACATCTGTGAAAGGATCGCCG 346
Db 482 TCGCACTGGGAGAGTACACACCGGCAAGAGAGAGCTTTCATATGAGGAAATATGCCCCA 541
OY 347 CGCTTAAAGGTGTGGGCTATGACATCTGATGATGACATCTATGAGGATGATGAT 406
Db 542 TTTTCAAGAGGATGTTATGATGATGATGATGATGATGATGATGATGATGATGAT 601
OY 407 ACACGATCATGAGATGGGCGGCTATGATGATGATGATGATGATGATGATGATGAT 466
Db 602 ACACGATCATGAGATGGGCGGCTATGATGATGATGATGATGATGATGATGATGAT 661
OY 467 TGCTGCATGAGACAGTGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 526
Db 662 GAGACAGCTGCAAG 721
OY 527 CACCTCAGACTAATCTTACTTCTTACACCGCGGAGAGAGAGAGAGAGAGAGAG 586
Db 722 ACATCATCTGAGACCTTCCATCCACGCTCCCTGTAAGAAATTTACACGCGCAGCTC 781
OY 587 TGAG 646
Db 782 TGAG 841
OY 647 TGTGTGTGTTCGCGGCTTGTCTGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 706
Db 842 TGTGTGTGTTCGCGGCTTGTCTGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 901
OY 707 CTGGCAAGGT 766
Db 902 CTGGCAAGGT 961
OY 767 CGAGAGCGCTCAGCTTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 826
Db 962 TGAGGGGTGTCACCTTCCCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1021
OY 827 GGCACAAATGCAAAATCTAAGGTATGATGATGATGATGATGATGATGATGATGAT 886
Db 1022 GGCACAAATGCTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1081
OY 887 TCGGTCCCGGTTTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 946
Db 1082 TTGGTCCGCGCTTGGGCTTGTCTGTCTTGTCTTGTCTTGTCTTGTCTTGTCT 1141
OY 947 GCTACAGGAG 1006
Db 1142 GCTACAGAGATGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1201

OY	1007	TCGCATTTTCTCGGTTTTGGGGTACATAGCGGCACGTTTCACAAACAGCATTCAGGACG	1066
Db	1202	TTTTTCTTTCATCTTACACAGTGTCTGGTTACATAGCTGTAGATGAGGAATGAAGATGTGTCTGAGC	1261
OY	1067	TTGGC---CTGGAAGGCCCTTGAGCTGTGTTCATCTGTCTACCCGAGGCCATCACCACA	1123
Db	1262	TGGCCCAAGAGCGACGTCCAGCCCTCCCTTCATCAGGTATGACGAAGCCGATTACCAACA	1321
OY	1124	TGACCGGCTCGGTGTTCGGGGCCATTCCTTCCTCATACCTTATTAACCTGGGACTTG	1183
Db	1322	TGCCAGCGCTCACCTTCTTTCGCCATCATCTTCTTCTGTGATGTATATACGCTGGGGCTTG	1381
OY	1184	ACAGTACTTTTGGAGGCTTTGAGGCGAGTCACACACGCGCTCTTTGGAGAAATATCTGAG	1243
Db	1382	ACAGACAGCTTTGACAGGCTTTGAGGGGGGATACAGGCGTGTCTGGATGAGTTCACACAG	1441
OY	1244	TGTTAGGCACAGCATGCGGAGATATTTGTGGCTGTACTTCCTTCTTATCTATATTTGGC	1303
Db	1442	TCTTGCGCCACAGCGCGGGAGGGTTCGGTCTGCGCGCGGTATCATCCTGCTCTTCTTGAT	1501
OY	1304	CTCTGCCACACACATACAGTGTGTATCTCGTATACCTACCTCAATGTATGAGCC	1363
Db	1502	CCCTTGTCATCCCTGACTTTTGGAGGGGCTTACGTGTGAAGCTCTGTGAGAGATATGCCA	1561
OY	1364	CTGATTTGGCATTTCTATTTCTGTGTATTTGCTGAGGCTGCCGGCGTGTGCTGGGTATG	1423
Db	1562	CGGGGCCCGCAGTGTCTACTGTCCGCGGTATGACGAAGCATGCGTGTCTTGGTTCTATG	1621
OY	1424	GCCTGCACCGGTTCTCTGAAGATGTGAGGACCATCTGGGGGCACACCCCTGGAGTGTCT	1483
Db	1622	GCATTCACCTCACTTCTGCAGGAGCATGAGAAATGCTTGCGCTTACGCCCGGGGTGATCT	1681
OY	1484	GGAGGACCTGTGTCTTACATCACTAGTCCCGATTTCTTGCTGGTCTGTGTGTTCTCGC	1543
Db	1682	GGAGGATCTCTGTGGGTGGCCATCAAGCCCTCTGTTTCTCTGTATCATTTGCAGTTTTC	1741
OY	1544	TTTCTGGCACACGAGAGATGCTGTGGCGGGGAATACACCTATCCCTCATGGTCTATCACCG	1603
Db	1742	TGATGAGCCGCCACACACTAGACTTTTCCAAATTAATTAATCTTACTGAGTATCATCT	1801
OY	1604	TAGCGTGGGTGATGACGGGCACACCGCTTCCTGTCATTCCTCTTACATTTATCTACAAC	1663
Db	1802	TGGGTTACTGTCATAGAAACCTCATCTTTTCATTTGCATCCCACATATATAGCTATGCGT	1861
OY	1664	TGCTCATCATCTCTGCGCAATTCATCAACCCGATCAAGACAA	1705
Db	1862	TGATCATCATCTCCAGGACATTTAAAGAGCGTATTATTAAAA	1903
RESULT	10		
AA	AX57846		
ID	AAK57846	standard; DNA; 2889 BP.	
XX	AAK57846;		
AC			
XX	15-JUL-1999	(first entry)	
DT			
XX			
XX		Human serotonin transporter coding sequence.	
XX			
KW		YAC: yeast artificial chromosome; serotonin transporter; SERT;	
KW		reporter gene; transgenic mammal; therapy; circadian function; human;	
KW		sleep disorder; eating disorder; premenstrual syndrome; birth defect;	
KW		autoimmune disorder; sexual dysfunction; ss.	
XX			
OS		Homo sapiens.	
XX			
PN	GB2331752-A.		
XX			
PD	02-JUN-1999.		
XX			
PF	27-NOV-1998;	98GB-0026126.	
XX			
PR	05-NOV-1998;	98GB-0024275.	

PR	28-NOV-1997:	97GB-0025311.
PR	28-NOV-1997:	97GB-0025313.
PR	20-MAR-1998:	96GB-0006072.
PA	(MEDI-) MEDICAL RES COUNCIL.	
PI		
PI	Hartmar AJ, Schedl A, Shen S:	
XX	WPI: 1999-290603/25.	
DR		
XX		
PT	New reporter gene labeled YAC vectors and transgenic mammals used	
PT	for screening potential active agents	
XX		
PS	Disclosure: Page 70-71: 98pp: English.	
XX		
CC	This sequence encodes the human serotonin transporter (SERT).	
CC	The invention relates to yeast artificial chromosome (YAC) vectors	
CC	containing a reporter gene and transgenic mammals produced using them may	
CC	be used to screen for an agent affecting nucleotide expression and gives	
CC	easier monitoring of in vivo expression. The vector is used in the	
CC	production of transgenic mammals for testing potential pharmaceutical or	
CC	veterinary agents. PYAM is used to amplify YAC. The assay may be used to	
CC	screen for agents useful in treatment of disturbance of circadian	
CC	function, sleep disorders, eating disorders, premenstrual syndrome,	
CC	autoimmune disorders, birth defects in women and/or sexual dysfunction.	
CC	The agents thus detected may be used for treatment of disorders related	
CC	to the expression pattern of a nucleotide such as those above. The	
CC	vectors have more concentrated YAC DNA, which allows better and more	
CC	reliable gene transfer. The presence of a reporter gene allows easy	
CC	monitoring of in vivo expression and the vectors allow for gene	
CC	overexpression (3-5 fold) and easy site determination. The PYAM	
CC	amplification vector does not contain the thymidine kinase gene, which	
CC	causes male infertility in transgenic mice.	
XX		
XX	Sequence 2889 BP: 672 A: 753 C: 722 G: 742 T: 0 other:	
Query Match	31.3%: Score:552.4: DB 20: Length 2889:	
Best Local Similarity	59.5%: Pred. No. 3.4e-139:	
Matches	953: Conservative 0: Mismatches 646: Indels 3: Gaps 1	
OY	107 GGCAGCGCGAACCCTGGGCGAAGAGGAGAGATTCCTGCTGGCGGTGGGATTTCGCGAG	166
Db	535 GGGAACGGGAACACTCGGGGCAAGAAGGTGGATTCTCTCTCAATGATGGCTATGCTG	594
OY	167 TGGATCTTGTGAACGCTGTGGCGATTCCCTACATCTGTTTACCAGATGGAGCGGTGCGT	226
Db	595 TGGACCTGGGCAATGCTGCGCGCTCCCTCATATGTTTACCAGATGGAGGCGGCGAT	654
OY	227 TCCGATCCGCTACGTGCGGTATAGCGCTGTTGGGCGGCTCGCGTGTCTTCCTCGGAAC	286
Db	655 TCTCTCTCCCTTACACCATCATATGCGCATTTTGGGGGAATCCCGCTTTTACATGGAGC	714
OY	287 TGGCGCTGGGCGAGTACCACGCGTGGCGCTGCCTCACTCTCTGGAAGCGATCTGCCCG	346
Db	715 TCGCACTGGGACAGTACCACGGAATGATGGATTCAATATGGAGGAATATCTGCCCGA	774
OY	347 CGCTTAAAGGTGTGGCTATGCCATCTGCATGATGACATCTACATGGCGATGTACTACA	406
Db	775 TTTTCAAGAAGGATTGGTTATGCCATCTGCATCATATTCGCTTTTACATCTTCTCTACTACA	834
OY	407 ACAGAGATCATGGATGGCGGTGTATTCACCTGATGCGCTTCTCGCTATTAACCTGCG	466
Db	835 ACACATCATATGGCTGGCGCTATATCTATCTCATATCTCTCTTACAGGACCAAGCTGCCCT	894
OY	467 TGTGGCATGAGCAGCAGTGCAGCAACGAGTGGAAACGCGCGCTGTGACGCGCGTACACT	526
Db	895 GGACACAGCTCGAAGAACTCTGGAACACTGGCAACTGCACCAATTAATCTTCCGAGGACA	954
OY	527 CACCTCAGACTTAATCTCTAATCTTCTTACACGGGCGCAAGAGTCTCTGGAAGCTATGTAT	586
Db	955 ACATTCACCTGGAGCCCTTCATTTCCAGCTGCCCTGTGGAAGAAATTTTACACGGGCCACGCTC	1014
OY	587 TGGAGCAGCAACAAGTCTAACGGCGCTGGATGGATATGGGCGCGCATCAAGCGTGTGCGCTC	646

Db 1015 TGCAATCCACCGGCTTAAGGGGCTCCAGACCTGGGGGATCAGCTGGCAGCTGGCCC 1074
 QY 647 TGTGCTGTGGGGTCTTTGCCGCTACTTCTCTGGGAAAGAGTCAGAGTGG 706
 Db 1075 TCTGATCATCTGATCTTCACTGTTATCTACTAGATGGAAGGCGTCAAGACT 1134
 QY 707 CTGGCAAGTGGTGGGTGACAGCTGGCCCCGTAGCTGGTGGTCTGATTCTGTGG 766
 Db 1135 CTGGCAAGTGGTGGGTGACAGCCTTCCCTATATATCTCTTCTGTCTGCTGG 1194
 QY 767 CGAGAGCGGTACAGCTTCCAGAGCGAGGAGGATACGCTACTACTTACCCAGAGT 826
 Db 1195 TGAGGGGTGACACCTCCCTGGAGGCTGGAGGGGTCTCTCTTACTTGAACCAATT 1254
 QY 827 GGCACAAATGTCAAACTTAAGTATGATGACGGCGCATCCAGATTTCTCTGGC 886
 Db 1255 GGCACAACTCTTGAGACAGGGGTGTGATGATGATGACGCGCTCAGATCTTCTCTC 1314
 QY 887 TCGGTCCCGGTTCCGAACCCCTACTGCGGCTCCAGTACAAAGTTTCAACAACT 946
 Db 1315 TTGTCGCGGGCTTGGGGTCCGCTGCTTGTGCTAGCTACACAAAGTTCAACAACT 1374
 QY 947 GCTACAGGACGCGCTCATFACCTTCTATFACACTGCTTGACACGCTTCTGCTGTT 1006
 Db 1375 GCTACCAAGATGCCCTGTGTGACACAGCGTGTGAACTGATGACGAGCTTCTGCGGAT 1434
 QY 1007 TCGTATTTTCGGSTTTGGGCTACATGGCGCAGCTTCAGACAAAGATCAGAGAGG 1066
 Db 1435 TTGTATCTTCACTGCTCGGTTACATGGCTGAATAGATGAATGAATGTGTGAGG 1494
 QY 1067 TTGGC---CTGGAAGCCCTGAGCTGTGTTCTATGCTATACCCGAGCCATCGCACCA 1123
 Db 1495 TGGCCAAAGACGAGGTCCCAAGCCCTCTTCTATACGATACCAAGGATAGCACCA 1554
 QY 1124 TGACCGGCTCGTGTGTGGGCAATCTTCTCTAATGCTTATACCTGGAGCTTG 1183
 Db 1555 TGCCAGCGTCACTTCTTGGCATCATCTTCTCTAATGCTTATACGCGGCGCTTGG 1614
 QY 1184 ACAGACTTTTGGAGGCTGTGGAGTACACAGGCGCTTGGCAGAAATCCCTCAG 1243
 Db 1615 ACAGCAGTTTGGACGCTTGGAGGGGTGATCAGCGTGTGATGATGATCCACAG 1674
 QY 1244 TGTTAGGACAGATCGCAGATATTGTGGCTGTACTGCTTCTTCAATCTATTTGG 1303
 Db 1675 TCTGGGCCAAGCGCGGGAGCGGTCTGCTGCTGGCTGCTCACTGCTTCTTGGAT 1734
 QY 1304 CTCTGCCACCAACACATAGGTGTGTATACCTCGTAGACCTACTCAATGTATGCC 1363
 Db 1735 CCTGTGACCTGTGACTTTTGGAGGGGCTTACGTGTGAAGCTGCTGGAGAGTATGCCA 1794
 QY 1364 CTGGAATTGGCGATTCTATTCTGCGTATTGTGAGGCGCCGCGCTGCTGGGTATG 1423
 Db 1795 CGGGGCCGAGTGTCTACTGTGCGCTGATGAAGCAGTCTGTGCTTGTGTTCTAG 1854
 QY 1424 GCGTGCACCGTCTCTGAGATGTGAGGACCATCTGGGGACACCCCTGATGTTCT 1483
 Db 1855 GCATCAGTCAGTTCTGAGGAGCGTGAAGAAATCTCGGCTTCAAGCCGCGGTGTTCT 1914
 QY 1484 GGAGACCTGTGTTCTTACATAGTCCCGTATTTCTGCTGGTCTGTTCTGCTCCG 1543
 Db 1915 GGAGGATCTGGGTGGCATACAGCCCTCTTCTCTCTCTTCAATTCAGATTCTTC 1974
 QY 1544 TTCTGGACACGAGAGATGCTGGCGGGGATATACCATCCCTCATGCTATACACG 1603
 Db 1975 TGATAGGCCCGCACACTAGACTTTTCCAAATATATATATCTTACTGAGTATCATCT 2034
 QY 1604 TAGGCTGGGTATGACCGGACACCGCTCTCGTCAATTCCTTATCATATATCTACAAAC 1663
 Db 2035 TGGGTACTGCAATGAGAACCTCATCTTTCATTTGATCCCAATATATAGCTTATCGGT 2094
 QY 1664 TGCTCATCACTCTGGCAATTGCATCAACCGCATCAAGACAA 1705

Db 2095 TGATCATCACTCCAGGACATTTAAAGACGTTATTTAAAA 2136
 RESULT 11
 ID AAC85219 standard; DNA: 2889 BP.
 AC AAC85219;
 XX
 DT 22-MAR-2001 (first entry)
 XX
 DE Human serotonin transporter gene.
 XX
 KW Internal ribosomal entry site; IRIS; Yeast artificial chromosome;
 KW YAC; vector; centromere; telomere; origin of replication;
 KW transgenic; circadian function; sleep disorder; eating disorder;
 KW premenstrual syndrome; autoimmune disease; birth defect;
 KW sexual dysfunction; serotonin transporter; VIPR2 receptor; SERT;
 KW VIPR2; ds.
 KW
 XX
 OS Homo sapiens.
 XX
 PH Location/Qualifiers
 FT 1..85
 FT /tag= a
 FT /label= Exon 1A
 FT 86..182
 FT /tag= b
 FT /label= Exon 1B
 FT /note= "Some splice variants do not include this
 FT exon"
 FT 183..648
 FT /tag= c
 FT /label= Exon 2
 FT 649..783
 FT /tag= d
 FT /label= Exon 3
 FT 784..1003
 FT /tag= e
 FT /label= Exon 4
 FT 1004..1142
 FT /tag= f
 FT /label= Exon 5
 FT 1143..1277
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 FT /label= Exon 6
 FT 1278..1381
 FT /tag= h
 FT /label= Exon 7
 FT 1382..1509
 FT /tag= i
 FT /label= Exon 8
 FT 1510..1622
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 FT /label= Exon 9
 FT 1623..1754
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 FT /label= Exon 10
 FT 1755..1854
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 FT /tag= m
 FT /label= Exon 12
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 FT /tag= n
 FT /label= Exon 13
 FT 2124..2889
 FT /tag= o
 FT /label= Exon 14
 FT 180..2198
 FT /tag= p
 FT /product= SERT

Db	1915	GGAGGATCTGCTGGGTGGCCATTCAGCCCTCTGTTCTCTCTTCATCATTTTCGAGTTTC	1974
Qy	1544	TTCTTGGCAGCAGAGAGATGCTCGGCGGGGAATACACCTATCCATGTCATACCG	1603
Db	1975	TGATGAGGCCCCGCCACAACTACGACTTTTCCAAATATTAATTCCTACGAGTATCATCT	2034
Qy	1604	TAGCTGGGTATGATGACCGGCACCAACCGCTCGTGCATTCCTTTTACATTAATTCACAAAC	1663
Db	2035	TGGGTACTGCATAGGAACCTCATCTTTCATTTTCATTCCTCCACATATATTACCTTATCGGT	2094
Qy	1664	TGCTCATCATCTCTGGCAATTCATCAACCGCATCAGACAA	1705
Db	2095	TGATCATCATCTCCAGGACATTTAAAGAGCGTATATTAAAA	2136
RESUL.T 12			
AAH28082	ID	AAH28082 standard; DNA; 1854 BP.	
XX	AAH28082;		
XX	05-SEP-2001	(first entry)	
DE	Nucleotide sequence of a human norepinephrine transporter.		
XX	Norepinephrine transporter; orthostatic intolerance; gene therapy;		
KM	mental illness; hypertension; heart disease; stimulant abuse; cocaine;		
KM	amphetamine abuse; ss.		
OS	Homo sapiens.		
XX	Key	Location/Qualifiers	
XX	CDS	1..1854	
FT	/*tag= a		
FT	/product= "norepinephrine transporter"		
XX	MO200148246-AL.		
PM	05-JUL-2001.		
PD	28-DEC-2000; 2000WO-US35491.		
XX	05-JUL-2001.		
XX	29-DEC-1999; 99US-0173682.		
PR	11-JAN-2000; 2000US-0175456.		
XX	(UYVA-) UNIV VANDERBILT.		
PA	Robertson D, Blakely RD;		
XX	WPI: 2001-425681/45.		
DR	P-PSDB: AAB84532.		
XX	Screening for susceptibility to sub-optimal norepinephrine transport,		
PT	particularly orthostatic intolerance in a subject by detecting a		
PT	polymorphism of norepinephrine transporter gene		
XX	Claim 75; Page 98-101; 133pp; English.		
PS	The present sequence encodes a human norepinephrine transporter. The		
XX	specification a method for screening for susceptibility to sub-optimal		
CC	norepinephrine (NE) transport in a subject. The method comprises		
CC	obtaining a biological sample from the subject and detecting a		
CC	polymorphism of a norepinephrine transporter gene in the sample from		
CC	the subject, the presence of the polymorphism indicating the		
CC	susceptibility of the subject to sub-optimal norepinephrine transport.		
CC	The method is useful for screening for susceptibility of a subject to		
CC	orthostatic intolerance. Norepinephrine transporter genes are useful		
CC	for gene therapy for modulating norepinephrine transport in a target		
CC	cell and treating susceptibility to impaired norepinephrine transporter		
CC	function, orthostatic intolerance or other relevant diseases in humans		
CC	and animals such as mental illness, hypertension, heart disease, psycho		
CC	stimulant abuse e.g. cocaine or amphetamine abuse.		

[illegible]

Db 1114 CACAAGGTCAACATTGAGATGTGGCCACAGAAAGAGACTGGCCCTAGTGTTCATCTCTAT 1173
 Qy 1105 CCCGAGGSCATCCGACCATGACCGGCTCCGTTTGTGGGCAATCTTCTTCATG 1164
 Db 1174 CCAGAGGCCATTTCTACCCCTGTCTGATCTACATTTCTGGGCTGTGTGTTTTCATG 1233
 Qy 1165 CTATTATACCTTGAGACTTGAAGTCTTGAAGGCTTGAAGGCTACACAGGCTCTT 1224
 Db 1234 CTCTGCGCTGGGCTTGAAGCTCAATGAGGAGCTGAGAGGCTGATCATCAGGCGCTG 1293
 Qy 1225 TGGAGCAATATCTGAGTGTAGAGACATCCGCAATATTGTGGCTGATCTCTT 1284
 Db 1294 GCAGATGACT--TCCAGGTCTGAAAGCAGACCGGAACCTTTCACATTTGGGCTACC 1350
 Qy 1285 CTGTTCACTATATTGGGCTTGCCTGACCCACACACATACGAGTGTATACCTGTAGAC 1344
 Db 1351 TTCAGCACTTTCCTTCGCGCTGTCTGATTAACCAAGGTTGAATTTACGCTTGACC 1410
 Qy 1345 CTACTCAATGTATGAGCCCTGGATTGGCAATTTCTGTTATTGCTGAGGCTGCC 1404
 Db 1411 CTCTTGACACCTTGTGCTGGGACCTCCATCTTTTGTCTCATGGAAGCATC 1470
 Qy 1405 GGGGTGTGGGTGTATGGGTGACCGGTTCTCTGAAGATGAGAGACCATCTGGG 1464
 Db 1471 GGAGTTTCTGTTTATGAGAGTTCAGACGACATCCAGACATGATGATGGG 1530
 Qy 1465 CACACCCCTGAGTGTCTGAGAGACCTGTTGCTTACATCAGTCCCTATTCTTGCTG 1524
 Db 1531 TTCAGCGCGGCTATACCTGAGACGTGCTGGAAGTCTGCTGCTGCTGCTCTG 1590
 Qy 1525 GTCTGTCTGTTCTTCCTGCTTGGACACAGAGAGATGCTCGGCGGGAATACCTAT 1584
 Db 1591 TTGCTGTGTTGTGCTACACATCATCACTCAAGCCATCCTACGACGACTACATCTTC 1650
 Qy 1585 CCTCATGCTATTCACACCTGAGGCTGATGACCGGACCAACCGCTGCTGATTCCT 1644
 Db 1651 CCGCCCTGGGCAACTGGGTGGGCTGGGAGCTGCGCTGCTTCATGCTGCTGCTG 1710
 Qy 1645 CTTTACATTATGACAAACTGCTCATCTCTGCG 1680
 Db 1711 ATCTAGTCATCTATAGTTCTCTCAGACGACGAGG 1746

RESULT 13
 AAH28086
 ID AAH28086 standard; DNA: 1854 BP.
 XX AAH28086:
 05-SEP-2001 (first entry)
 XX Nucleotide sequence of a human norepinephrine transporter.
 DE Norepinephrine transporter; orthostatic intolerance; gene therapy;
 XX mental illness; hypertension; heart disease; stimulant abuse; cocaine;
 KW amphetamine abuse; ss.
 KW
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT CDS 1..1854
 FT /tag=a
 FT /product="norepinephrine transporter"
 XX MO200148246-A1.
 XX
 PD 05-JUL-2001.
 XX
 PF 28-DEC-2000; 2000MO-US35491.
 XX
 PR 29-DEC-1999; 99US-0173682.
 PR 11-JAN-2000; 2000US-0175456.
 XX

PA (UYVA-) UNIV VANDERBILT.
 XX
 PI Robertson D, Blakely RD;
 XX
 DR WPI: 2001-425681/45.
 DR P-PSDB: AAB84534.
 PT Screening for susceptibility to sub-optimal norepinephrine transport,
 PT particularly orthostatic intolerance in a subject by detecting a
 PT polymorphism of norepinephrine transporter gene
 XX
 PS Claim 75: Page 112-115; 133pp: English.
 XX
 CC The present sequence encodes a human norepinephrine transporter. The
 CC specification a method for screening for susceptibility to sub-optimal
 CC norepinephrine (NE) transport in a subject. The method comprises
 CC obtaining a biological sample from the subject and detecting a
 CC polymorphism of a norepinephrine transporter gene in the sample from
 CC the subject, the presence of the polymorphism indicating the
 CC susceptibility of the subject to sub-optimal norepinephrine transport.
 CC The method is useful for screening for susceptibility of a subject to
 CC orthostatic intolerance. Norepinephrine transporter genes are useful
 CC for gene therapy for modulating norepinephrine transport in a target
 CC cell and treating susceptibility to impaired norepinephrine transporter
 CC function, orthostatic intolerance or other relevant diseases in humans
 CC and animals such as mental illness, hypertension, heart disease, psycho
 CC stimulant abuse e.g. cocaine or amphetamine abuse.
 XX
 SO Sequence 1854 BP; 357 A; 553 C; 494 G; 450 T; 0 other;

Query Match 29.6%; Score 522.4; DB 22; Length 1854;
 Best Local Similarity 59.9%; Pred. No. 3.7e-131;
 Matches 956; Conservative 0; Mismatches 616; Indels 24; Gaps 4;

Qy 103 GCGCGGAGGCGGAGACCTGGGAGAGACGAGTCTGCTGGCGGCGGAGATTC 162
 Db 157 GCGCAGCGCCCGGAGAGACCTGGGAGAGATGACTCTGCTGCTGAGTGGCTTC 216
 Qy 163 GCAGTGAATCTTGTAACGTGTGGCGATTCCCTACATCTGTTACCAAGATGAGCGGT 222
 Db 217 GCAGTGAACCTGGCCAAAGCTGTGGCGCTTCCCTACCTGCTGCTCAAGAACGCGCGGT 276
 Qy 223 GCGTCTGATCCCGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 282
 Db 277 GCGTCTGATCCCGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 346
 Qy 283 GAACGCGCTGGGAGCTGACACCGCTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 342
 Db 337 GAGCTGCTGTGGAGAGTACACCGGAGGAGGCTGCCACGCTTTGGAAA--ATCTGC 393
 Qy 343 CCGCGCTTAAAGTGTGGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 402
 Db 394 CATTCTTCAAAAGCGGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 453
 Qy 403 TACACACGATCATCGATGGGCGGTGATTTACCTGCTGCTGCTGCTGCTGCTGCTG 450
 Db 454 TACACGATCATCGATGGGCGGTGATTTACCTGCTGCTGCTGCTGCTGCTGCTGCTG 513
 Qy 451 GCGTCTATTAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 509
 Db 514 CCTGGACGAGCTGTGGCCACACCTGGAAGCGCCCAAGCTGTACCAACCCCAAGCTGCT 573
 Qy 510 ----GTGCAGCGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 564
 Db 574 AATGGCTCGTGTGTGGCAACACCAAGTACTCCAAAGTCAAGTCAAGTCAAGTCAAGT 633
 Qy 565 GAGTTCTTGAAGTATGATTTGAGACAGACAGTCTAAGGCGCTGATGAGATGGG 624
 Db 634 GAGTTTATGAGCGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 693
 Qy 625 CCGATCAAGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 684
 Db 694 CTGCCCAAGTGCAGCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 753

Db 337 GCGTCTTGTATCCCGTACACACTGTTCTTATCATGCGGGGATGCCCCGTTCTACATG 396
 Oy 283 GAACGTGGCGTGGGACGATACACACCGCTGGGCTGGCTCAGCTCTCTGGAACAGCATGCG 342
 Db 397 GAGCTGGCTCTGGGACGATACACCGGAGGGGCTGGCCACGCTTGGAAA---ATCTGC 453
 Oy 343 CCCGCGCTTAAAGGTGCGGCTATGCGCATCTGATGATGACATCTACATGGGCGATGAC 402
 Db 454 CCATTTCTTAAAGCGGTGGCTATGCTGATCTGATCTGATGCGCCCTGATAGCTTGGCTTAC 513
 Oy 403 TACACACAGTATCGGATGGGCGGTGATTTACCTGATGCTTC-----TCTC 450
 Db 514 TACACAGTATCTGCGCTGGCTGCTACTTACTTCTCTCCCTTCAACCTCAACCTG 573
 Oy 451 GCGTCTATAAAGCTCTGGCTGGCTGACAGCTGGGACAGAGATGGAACAGCGGCT- 509
 Db 574 CCGTGACCGAGCTGTGGCCACACCTGGAGACGCCCACTGTACCGACCCCAAGCTCTC 633
 Oy 510 -----GTGACGCGCGGTACACCTCAGACTAATCTTACTTCTACACCGGGAAG 564
 Db 634 AATGGCTCGGTGTTGGACACACACCAAGTACTCCAGTACAAAGTTACGCGGCGAGCC 693
 Oy 565 GAGTTCTTGAAGATATGATATTGAGACAGACACAGTCTAACGGCGCTGATGACATGGG 624
 Db 694 GAGTTTATGAGGCGTGTGCTGACACTTACAGAGAGCGCGGATTCATGACATCGCG 753
 Oy 625 CCGATCAAGCGCGTGGCTGTGCTGTGCTGTGGGCTTCTTCCGCTCTACTTCTC 684
 Db 754 CTGCCCACTGGGAGCTCTTGTCTGTCTGTATGATGCTGCTCATCTCTTGTATTTTAC 813
 Oy 685 TTGTGGAAGAGAGTACAGAGTGTGCAAGGTTGTGGGTGACAGCTTGCGCCGCTAC 744
 Db 814 CTCTGGAAGGCGGTGAAGACATCAGGAAAGGTGTGTGATCAGACGACGCTGCTTAC 873
 Oy 745 GTGGTCTCTGATTTCTGCTGGGAGAGGCTGACGCTTCCAGAGCGAGCGAGGCGATA 804
 Db 874 TTCTGCTGTCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 933
 Oy 805 CCGTACTACTTACCCAGAGTGGCACAATTTGCAAACTCTTAAAGTATGATTTGACGCG 864
 Db 934 AATGCTTACTGACATCGACTTCTACCGCTTAAAGAGCGCCAGGTATGATTTGATGCC 993
 Oy 865 GCATCCCAAGTATTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 924
 Db 994 GCAACTCAGATATTTTTCCTTGGGGGCTGATTTGAGATTTGATTTGATTTGCGAGT 1053
 Oy 925 TACAAAGATTCACAACAACACTGCTACAGGAGCGCGCTCATCTCTTCTATCACTGC 984
 Db 1054 TACAACAAAATTTGACAACAACAGTGTACAGGATGCCCTGCTGACAGCATCAACTGT 1113
 Oy 985 TTGACAGCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1044
 Db 1114 ATCACCAGCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1173
 Oy 1045 CAGAACAGAGCATCGAGAGGTTGGCTGCAAGGCCCTGAGCTGCTTCACTCGTGTAC 1104
 Db 1174 CACAAGGTCAACATTTAGAGATGTGGCACAAGAGGAGTGGCTTACGTTCATCTGATAT 1233
 Oy 1105 CCGGAGCGCATGGCCACATGACCGGCTCGGTCTTGGGCCATCATCTTCTTCTCTCATG 1164
 Db 1234 CCAGAGGCGCATTTTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1293
 Oy 1165 CTATTAACCTGGGATGACAGTACTTTTGGAGGCTTGGGACATGACAGCGGCTT 1224
 Db 1294 CTCTCTGGCGCTGGGCTTGCACACTCAATGGAGGATGAGGCTGTCACTACGCGGCTG 1353
 Oy 1225 TGGAGCAATATCTCTGAGTGTGAGCAGACATCGGAGATTTTGGCTGTACTGCTT 1284
 Db 1354 GCAAGATGACT---TCAAGTCTGGAAGCGACACCGAAACTCTTACATTTGGCGCTCAC 1410
 Oy 1285 CTGTTCTATATTTTGGCGCTGCGCCACACCATACATAGGCTGTATTTACTCTGTAGAC 1344

Db 1411 TTCAGCACTTTCCTCTCGCCCTGTCTGCAATACCAAGGCTGAATTTACGCTTGACC 1470
 Oy 1345 CTACTCAATGATGATGAGCCCTGATTTGGGATTCATTTGGGTATTTGCTGAGCGCTGCC 1404
 Db 1471 CTCTGGACACCTTCTCTGCGGACCTCCATCTTTTGTCTGCTTCAATGGAAGCCATC 1530
 Oy 1405 GCGGTGTGCTGATGATGAGCGCTGACCGGTTCTTGAAGATGTGAGACCATGCTGGGG 1464
 Db 1531 GAGATTTCGTCGTTTATGAGAGTGAAGGATTCAGCAAGACATCCAGCAGATGATGGGG 1590
 Oy 1465 CACACCCCTGATGATGCTTCTGAGAGACCTGTGCTTACATCACTGCTTATTTCTGCTG 1524
 Db 1591 TTCACACCGGCTCTATACCTGGAACACTGCTGCAAGTGTGCTGCTGCTGCTGCTGCTG 1650
 Oy 1525 GTGCTGTGCTGCTTCTCCGCTTTCGACACAGAGAGATGCTGGCGGGGAATACACCTAT 1584
 Db 1651 TTGCTGTGTGTGTGCTGACATCATCACTTCAACGCTACCTACGACACATCACTCTTC 1710
 Oy 1585 CCGTCAATGCTATTCACCGGTAGGCTGGGTGATGACCGGACACCGCTCTGTCATTTCT 1644
 Db 1711 CCGCCTGGGCAACTGGGTGGGTGGGCGATGCGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1770
 Oy 1645 CTTTACATTTATCTACAACTGCTCATCACTCTGCGC 1680
 Db 1771 ATCTACGTATCTATTAAGTTCTCTACACACGACGCGC 1806

RESULT 15
 AAH28083
 ID AAH28083 standard; cDNA; 1854 BP.
 XX
 AC AAH28083;
 XX
 DT 05-SEP-2001 (first entry)
 XX
 DE DNA encoding human norepinephrine transporter variant A457P.
 XX
 DE Norepinephrine transporter; orthostatic intolerance; gene therapy;
 KW mental illness; hypertension; heart disease; stimulant abuse; cocaine;
 KW amphetamine abuse; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT CDS 1..1854
 FT /tag= a
 FT /product= "norepinephrine transporter"
 XX
 PN W0200148246-A1.
 XX
 PD 05-JUL-2001.
 XX
 PE 28-DEC-2000; 2000MO-US35491.
 XX
 PR 29-DEC-1999; 9905-0173682.
 PR 11-JAN-2000; 2000US-0175456.
 XX
 PA (UYVA-) UNIV VANDERBILT.
 XX
 PI Robertson D, Blakely RD;
 XX
 DR MPI: 2001-425681/45.
 DR P-PSDB; AAB84533.
 XX
 PT Screening for susceptibility to sub-optimal norepinephrine transport,
 PT particularly orthostatic intolerance in a subject by detecting a
 PT polymorphism of norepinephrine transporter gene
 XX
 PS Claim 43; Page 104-108; 13pp; English.
 CC The present sequence encodes a variant norepinephrine transporter. The
 CC specification a method for screening for susceptibility to sub-optimal
 CC norepinephrine (NE) transport in a subject. The method comprises

